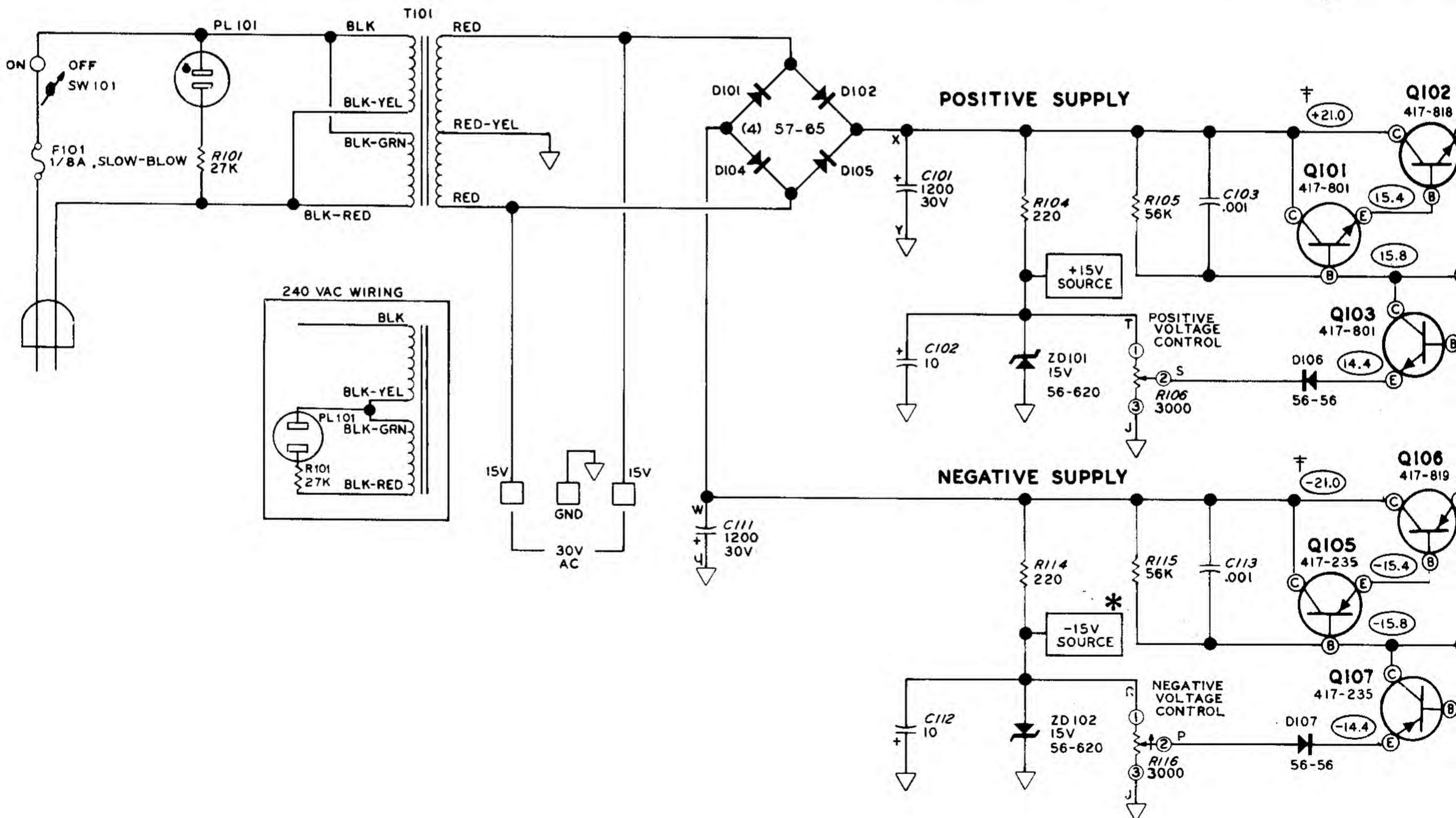
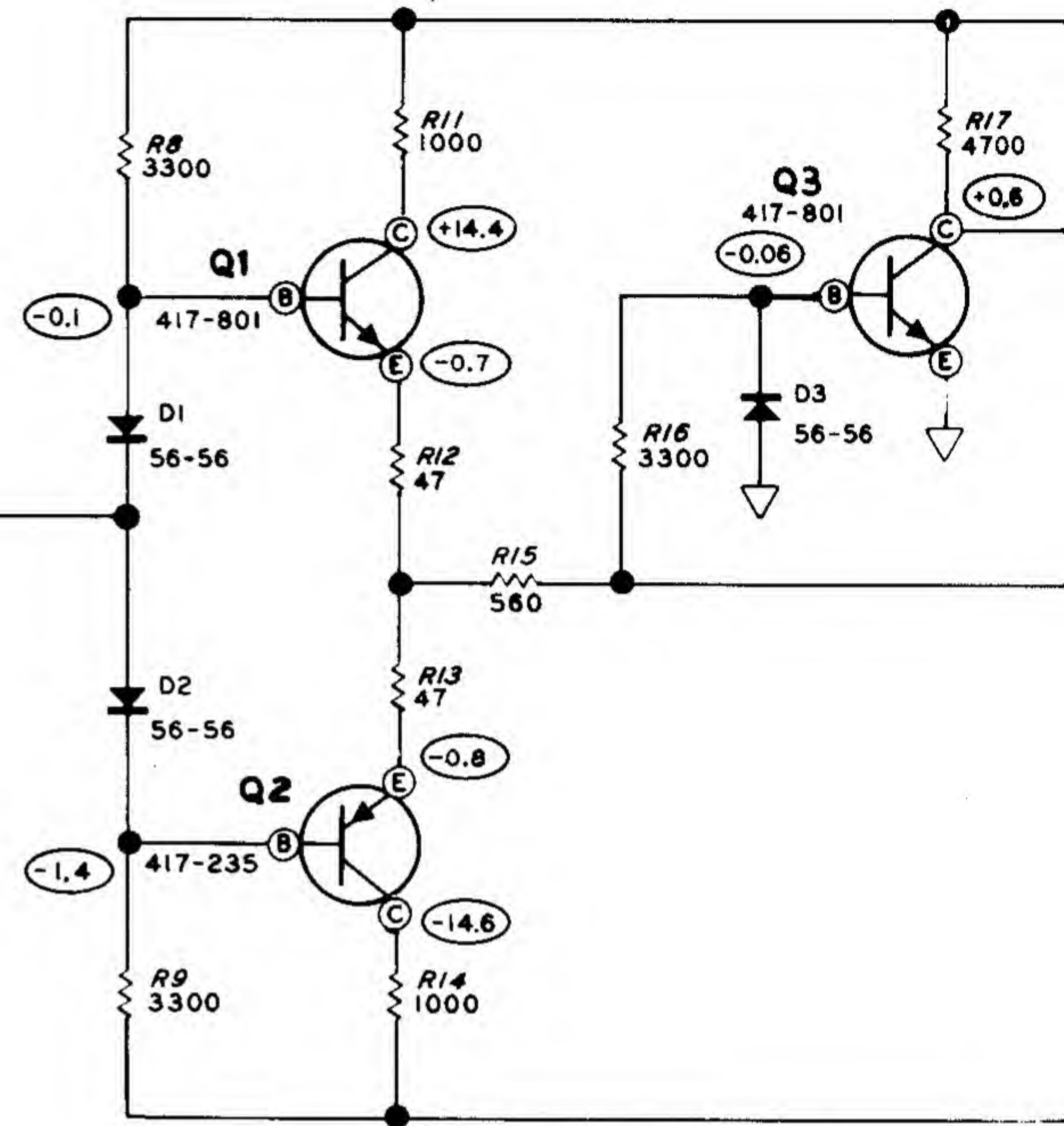
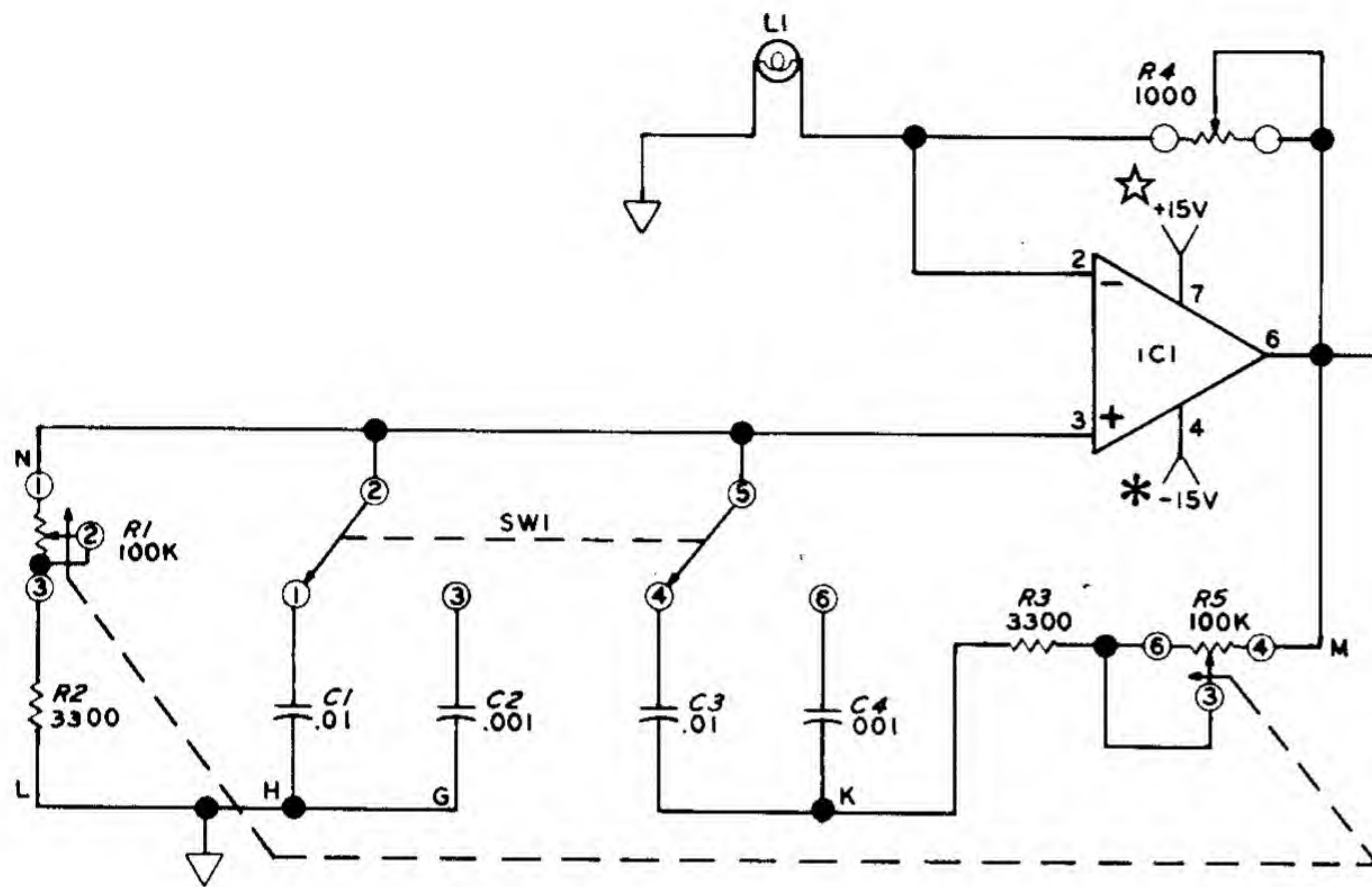
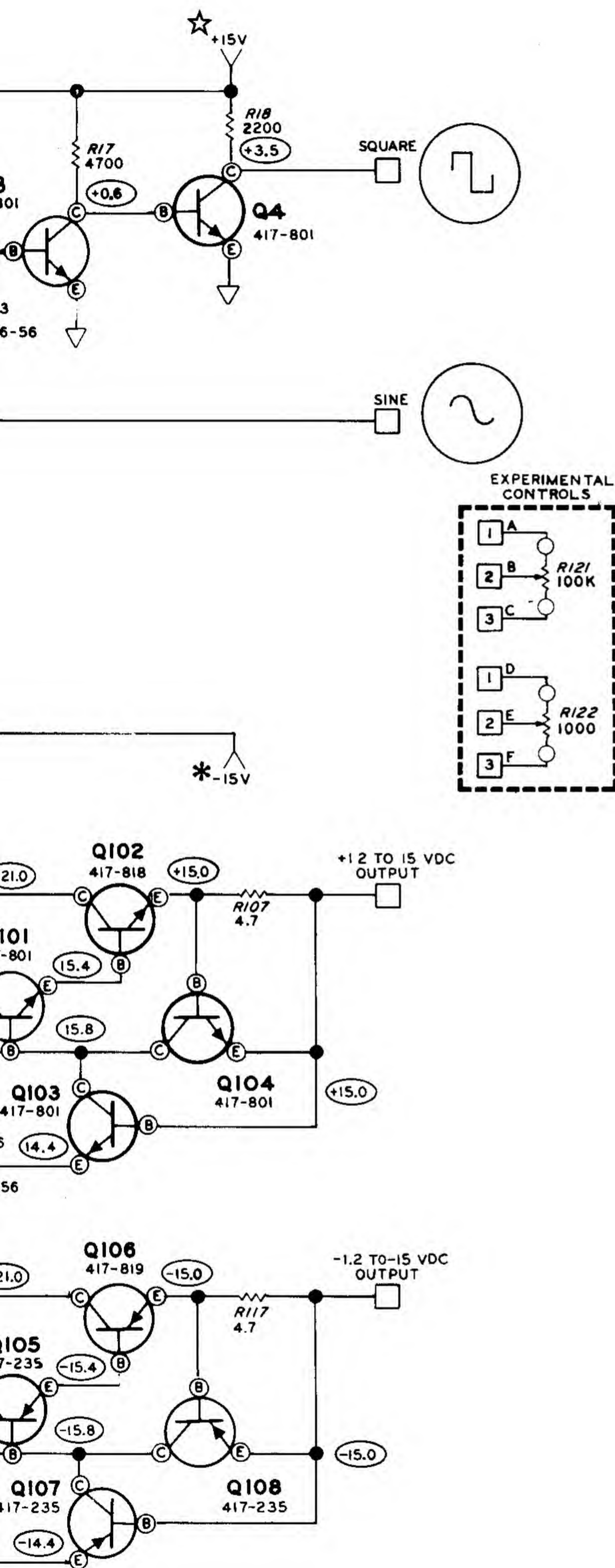


# SIGNAL GENERATOR







## SCHEMATIC OF THE HEATHKIT® ELECTRONIC DESIGN EXPERIMENTER MODEL ET-3100

### NOTES:

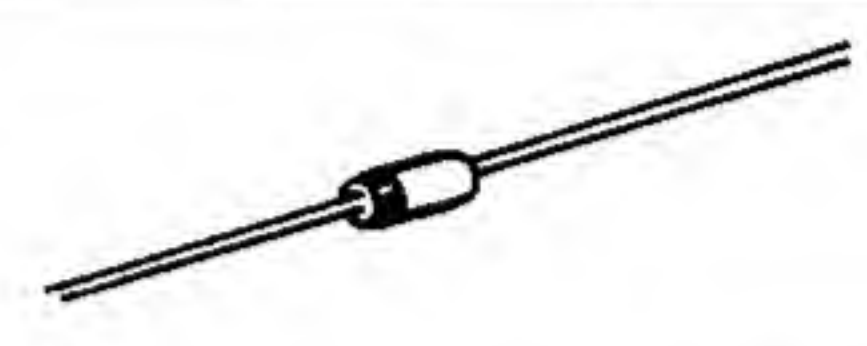
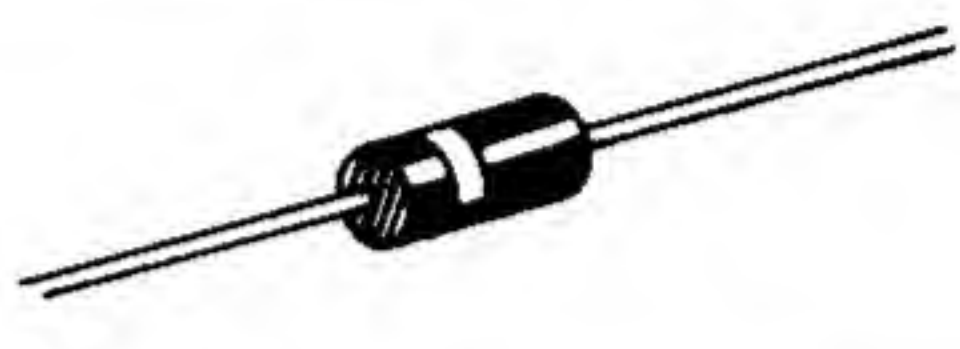
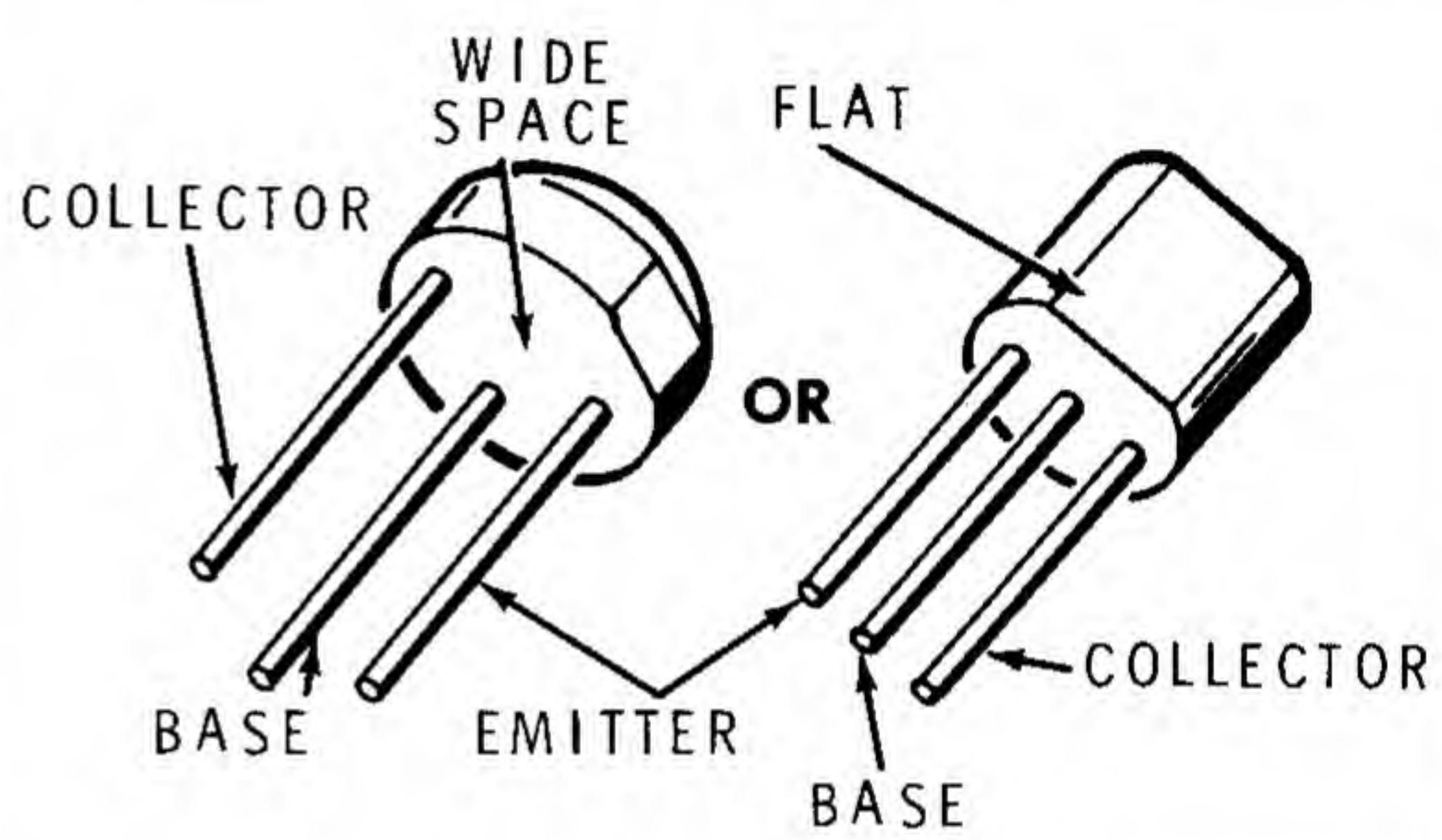
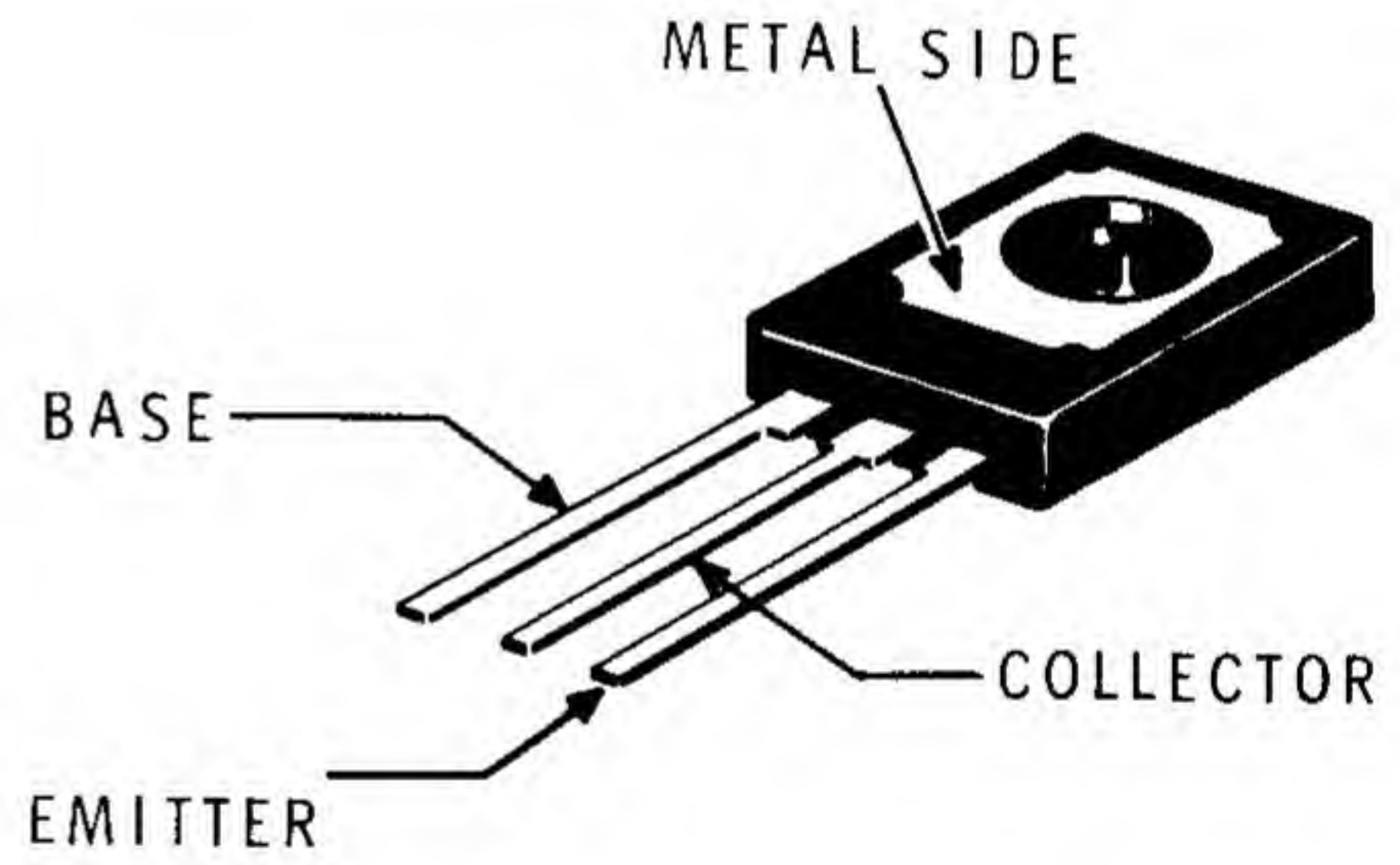
1. COMPONENT NUMBERS ARE IN THE FOLLOWING GROUPS:  
 1 - 99 PARTS IN THE SIGNAL GENERATOR.  
 100 - 199 PARTS IN THE POWER SUPPLIES AND TWO EXPERIMENTAL CONTROLS.
2. ALL RESISTORS ARE 1/2 WATT. RESISTOR VALUES ARE IN OHMS (K = 1000; M = 1,000,000).
3. ALL CAPACITOR VALUES ARE IN  $\mu$ F.
4. ○ THIS SYMBOL INDICATES A DC VOLTAGE TAKEN WITH A HIGH IMPEDANCE VOLTMETER FROM THE POINT INDICATED TO CHASSIS GROUND.
5. ☆ THIS SYMBOL INDICATES A CONNECTION TO THE +15 V SOURCE - NOT THE VARIABLE DC OUTPUT.
6. \* THIS SYMBOL INDICATES A CONNECTION TO THE -15 V SOURCE - NOT THE VARIABLE DC OUTPUT.
7. POWER SUPPLY VOLTAGES WERE TAKEN WITH BOTH OUTPUTS ADJUSTED TO 15 VOLTS.
8. † THIS SYMBOL INDICATES A VOLTAGE THAT WILL VARY AS THE LOAD AND LINE VOLTAGE VARY.
9. ⤴ THIS SYMBOL INDICATES THE CLOCKWISE ROTATION OF A CONTROL.

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# IDENTIFICATION CHART

CIRCUIT COMPONENT NO.	HEATH PART NUMBER	MANUFACTURER'S NUMBER	BASE DIAGRAM
D1, D2, D3, D106, D107	56-56	1N4149	
ZD101, ZD102	56-620	15-VOLT ZENER	
D101, D102, D104, D105	57-65	1N4002	
Q2, Q105, Q107, Q108	417-235	2N4121	
Q1, Q3, Q4, Q101, Q103, Q104	417-801	MPSA20	
Q102	417-818	MJE181	
Q106	417-819	MJE171	
IC1	442-22	N5741V	